

A METHOD AND SYSTEM FOR FREEZE PROTECTING LIQUID NO_x REDUCTANTS FOR VEHICLE APPLICATION

Abstract of Disclosure

A method and system for freeze protecting liquid NO_x reductants, preferably used in vehicle applications, wherein a liquid NO_x reductant, carried onboard a vehicle exposed to cold weather conditions, is heated by existing thermal energy generated by fuel compression. The heated fuel heats a potentially frozen reductant and the liquid reductant is supplied to an exhaust gas pipe in front of a catalyst for reducing NO_x on the surface of the catalyst and catalytically converted into environmentally safe nitrogen and water.

Figures